2/27/87 A8810-1

# RMA Industry Report

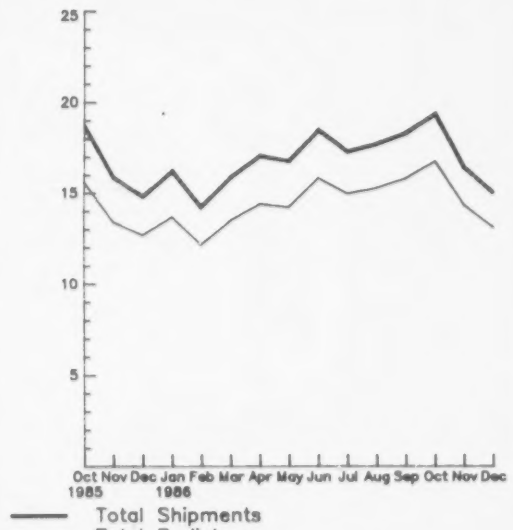
RUBBER MANUFACTURERS ASSOCIATION • 1400 K STREET, N.W. • WASHINGTON, D.C. 20005 • (202) 682-4860

## MONTHLY TIRE REPORT

### December 1986

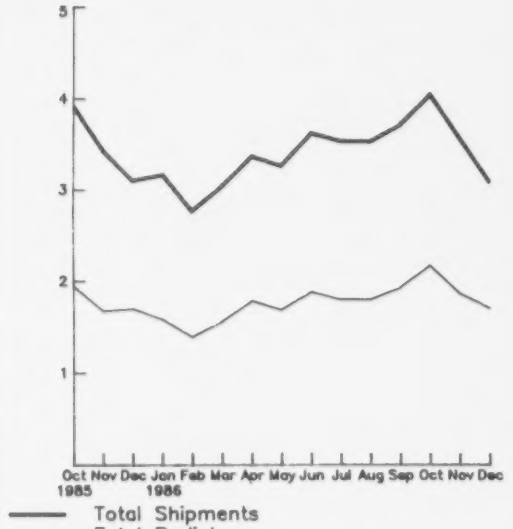
This report was compiled by the Rubber Manufacturers Association (RMA) and presents a monthly compilation of tire and inner tube shipments, production, exports, imports, and inventory. The actual industry data reported is adjusted to include estimates for non-participating companies so that the figures presented will represent 100% of the domestic U.S. tire market.

### PASSENGER TIRE SHIPMENTS



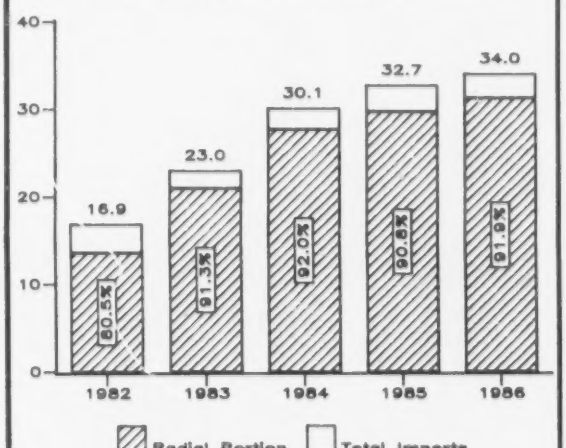

Figures in Millions of Units

### TRUCK & BUS TIRE SHIPMENTS



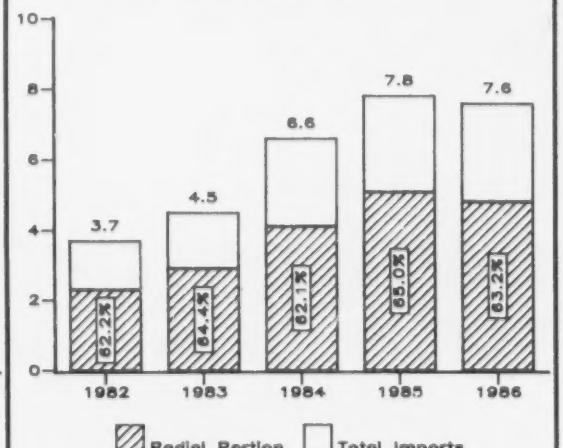

Figures in Millions of Units

### PASSENGER TIRE IMPORTS




Figures in Millions of Units

### TRUCK & BUS TIRE IMPORTS




Figures in Millions of Units

Above are two sets of charts which highlight shipments and imports of both passenger and truck & bus tires.

The shipment charts show monthly volumes for total shipments and radial shipments for fifteen months running. The vertical distance between the two lines in each graph is the non-radial portion of the total shipments. December 1986 total shipments are up +1.4% from December 1985 for passenger tires, and down -1.6% for truck and bus tires. The import charts show volume of imports of both passenger and truck and bus tires, as well as the portion of imports which are radial tires. From 1982 to 1986, passenger tire imports increased 101.1%, and truck and bus tire imports grew by 104.8%.

RMA MONTHLY TIRE & TUBE SHIPMENTS & PRODUCTION REPORT
(FIGURES IN THOUSANDS OF UNITS)

ISSUED: February 09, 1987

| | December 1986 | December 1985 | % CHANGE | YTD 1986 | YTD 1985 | % CHANGE |
|---|---|---|---|---|---|---|
| **PASSENGER TIRES** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 3,766 | 3,718 | +1.29 | 54,392 | 54,839 | -0.82 |
| Radial | 3,179 | 3,142 | +1.18 | 45,778 | 45,773 | +0.01 |
| Replacement | 10,901 | 10,764 | +1.27 | 144,267 | 141,455 | +1.99 |
| Radial | 9,672 | 9,297 | +4.03 | 125,102 | 115,412 | +8.40 |
| Export | 336 | 308 | +9.09 | 4,032 | 4,625 | -12.82 |
| Radial | 255 | 223 | +14.35 | 3,098 | 3,556 | -12.88 |
| Total | 15,003 | 14,790 | +1.44 | 202,691 | 200,919 | +0.88 |
| Radial | 13,106 | 12,662 | +3.51 | 173,978 | 164,741 | +5.61 |
| Production | 12,607 | 11,485 | +9.77 | 159,350 | 162,584 | -1.99 |
| Radial | 10,972 | 9,776 | +12.23 | 135,444 | 130,952 | +3.43 |
| Ending Inventory | 27,630 | 32,240 | -14.30 | - | - | - |
| Radial | 24,262 | 26,973 | -10.05 | - | - | - |
| **TRUCK & BUS TIRES** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 502 | 515 | -2.52 | 6,859 | 7,698 | -10.90 |
| Radial | 358 | 352 | +1.70 | 4,631 | 4,895 | -5.39 |
| Replacement | 2,455 | 2,510 | -2.19 | 32,392 | 32,098 | +0.92 |
| Radial | 1,275 | 1,275 | +0.00 | 15,732 | 14,099 | +11.58 |
| Export | 118 | 101 | +16.83 | 1,302 | 1,335 | -2.47 |
| Radial | 67 | 61 | +9.84 | 773 | 723 | +6.92 |
| Total | 3,075 | 3,126 | -1.63 | 40,553 | 41,131 | -1.41 |
| Radial | 1,700 | 1,688 | +0.71 | 21,136 | 19,717 | +7.20 |
| Production | 2,576 | 2,301 | +11.95 | 30,939 | 34,339 | -9.90 |
| Radial | 1,462 | 1,114 | +31.24 | 15,476 | 15,815 | -2.14 |
| Ending Inventory | 6,656 | 7,583 | -12.22 | - | - | - |
| Radial | 3,927 | 3,874 | +1.37 | - | - | - |
| **MOBILE HOME** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 36 | 41 | -12.20 | 606 | 1,048 | -42.18 |
| Replacement | 4 | 9 | -55.56 | 63 | 123 | -48.78 |
| Export | - | - | - | - | 1 | - |
| Total | 40 | 50 | -20.00 | 669 | 1,172 | -42.92 |
| Production | 28 | 46 | -39.13 | 531 | 1,042 | -49.04 |
| Ending Inventory | 73 | 152 | -51.97 | - | - | - |
| **TRACTOR IMPLEMENT** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 31 | 31 | +0.00 | 512 | 599 | -14.52 |
| Replacement | 147 | 124 | +18.55 | 2,319 | 2,395 | -3.17 |
| Export | 9 | 15 | -40.00 | 170 | 175 | -2.86 |
| Total | 187 | 170 | +10.00 | 3,001 | 3,169 | -5.30 |
| Production | 202 | 212 | -4.72 | 2,704 | 2,753 | -1.78 |
| Ending Inventory | 684 | 740 | -7.57 | - | - | - |
| **INDUSTRIAL & UTILITY** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 514 | 464 | +10.78 | 5,308 | 6,060 | -12.41 |
| Replacement | 76 | 69 | +10.14 | 2,897 | 1,751 | +65.45 |
| Export | 15 | 11 | +36.36 | 202 | 209 | -3.35 |
| Total | 605 | 544 | +11.21 | 8,407 | 8,020 | +4.83 |
| Production | 561 | 589 | -4.75 | 7,446 | 8,296 | -10.25 |
| Ending Inventory | 2,282 | 2,017 | +13.14 | - | - | - |
| **INNER TUBES*** | | | | | | |
| Total Shipments | | | | | | |
| Passenger & Motorcycle | 414 | 423 | -2.13 | 6,745 | 7,195 | -6.25 |
| Truck & Bus | 1,045 | 1,006 | +3.88 | 15,230 | 16,335 | -6.76 |
| Tractor-Implement | 138 | 134 | +2.99 | 2,454 | 2,436 | +0.74 |
| Industrial & Utility | 90 | 87 | +3.45 | 1,752 | 1,860 | -5.81 |

* Inner Tube figures are for shipments only, not production.
In order to avoid possible double counting, export figures are as reported to RMA and will vary from data in government reports. This report is available from RMA at a $200.00 subscription rate. Year-end reports are available at $200.00 each. Figures may not add due to rounding. For further detail on tire and tube exports, refer to the RMA 501 report.

IMPORTS FOR CONSUMPTION OF TIRE AND INNER TUBES -- SOURCE: U.S. Department of Commerce, Report No. IM-145
(Units are rounded and expressed in thousands)

| | TIRES | | | | | | | | | TUBES | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TSUSA NUMBERS: | 772.5109 | 772.5112 | 772.5127 | 772.5129 | 772.5136 | 772.5138 | 772.5141 | 772.4500 772.4600 | 772.5000 | 772.6005 | 772.6010 | 772.6025 | 772.5900 |
| | Pass. Radial | Pass. All Other | Light Truck Radial | Light Truck All Other | All Other Truck Radial | All Other Truck | Motor-cycle | Airplane | Farm Equip. | Pass. Tubes | Truck & Bus Tubes | Tire NSPF Tubes | Farm Tubes |
| 1985 | | | | | | | | | | | | | |
| January | 2,901 | 170 | 102 | 48 | 398 | 203 | 186 | 2 | 32 | 570 | 281 | 304 | 25 |
| February | 1,950 | 190 | 89 | 33 | 241 | 155 | 104 | 1 | 30 | 309 | 206 | 248 | 17 |
| March | 2,654 | 250 | 98 | 45 | 291 | 182 | 152 | 3 | 78 | 372 | 234 | 270 | 29 |
| April | 2,948 | 228 | 115 | 50 | 295 | 181 | 176 | 2 | 47 | 296 | 235 | 324 | 7 |
| May | 2,501 | 238 | 128 | 73 | 334 | 166 | 107 | 2 | 77 | 462 | 214 | 400 | 11 |
| June | 2,237 | 370 | 147 | 56 | 275 | 157 | 177 | 2 | 69 | 421 | 293 | 509 | 30 |
| July | 2,308 | 236 | 195 | 63 | 286 | 187 | 177 | 2 | 53 | 330 | 185 | 435 | 15 |
| August | 2,436 | 268 | 119 | 33 | 282 | 170 | 98 | 6 | 35 | 264 | 203 | 274 | 36 |
| September | 3,031 | 290 | 143 | 56 | 322 | 202 | 150 | 4 | 51 | 307 | 170 | 349 | 18 |
| October | 2,200 | 317 | 147 | 55 | 252 | 173 | 130 | 2 | 42 | 458 | 169 | 254 | 33 |
| November | 2,307 | 230 | 143 | 82 | 266 | 170 | 90 | 3 | 29 | 288 | 281 | 298 | 33 |
| December | 2,273 | 245 | 127 | 63 | 277 | 130 | 156 | 3 | 37 | 227 | 142 | 185 | 25 |
| CUMULATIVE | 29,745 | 3,032 | 1,554 | 658 | 3,519 | 2,076 | 1,703 | 31 | 578 | 4,306 | 2,612 | 3,848 | 279 |
| ANNUAL | 29,745 | 3,032 | 1,554 | 658 | 3,519 | 2,076 | 1,703 | 31 | 578 | 4,306 | 2,612 | 3,848 | 279 |
| 1986 | | | | | | | | | | | | | |
| January | 2,332 | 225 | 125 | 50 | 275 | 177 | 177 | 3 | 46 | 424 | 233 | 327 | 26 |
| February | 2,251 | 155 | 96 | 57 | 247 | 171 | 180 | 2 | 82 | 292 | 175 | 449 | 39 |
| March | 2,296 | 213 | 109 | 78 | 298 | 157 | 165 | 4 | 64 | 372 | 218 | 360 | 35 |
| April | 2,371 | 178 | 113 | 86 | 231 | 107 | 118 | 5 | 47 | 255 | 172 | 308 | 19 |
| May | 2,650 | 179 | 110 | 68 | 270 | 130 | 252 | 2 | 42 | 244 | 204 | 313 | 33 |
| June | 2,798 | 198 | 110 | 66 | 303 | 117 | 180 | 3 | 42 | 468 | 203 | 336 | 42 |
| July | 3,506 | 236 | 119 | 112 | 337 | 161 | 156 | 4 | 91 | 361 | 261 | 395 | 32 |
| August | 2,734 | 205 | 89 | 76 | 315 | 170 | 104 | 4 | 74 | 344 | 177 | 290 | 23 |
| September | 2,462 | 260 | 84 | 106 | 289 | 134 | 86 | 4 | 46 | 310 | 148 | 243 | 27 |
| October | 2,382 | 303 | 89 | 101 | 295 | 166 | 146 | 4 | 51 | 383 | 130 | 235 | 25 |
| November | 3,015 | 342 | 105 | 81 | 404 | 195 | 160 | 5 | 83 | 343 | 180 | 396 | 55 |
| December | 2,449 | 265 | 65 | 65 | 314 | 155 | 116 | 2 | 85 | 281 | 143 | 210 | 32 |
| CUMULATIVE | 31,246 | 2,759 | 1,213 | 946 | 3,578 | 1,840 | 1,838 | 40 | 752 | 4,077 | 2,244 | 3,862 | 387 |
| % Change Month | -18.8 | -22.5 | -38.1 | -19.8 | -22.3 | -20.5 | -27.5 | -60.0 | 2.4 | -18.1 | -20.6 | -47.0 | -41.8 |
| % Change Month 86 vs. 85 | 7.7 | 8.2 | -48.8 | 3.2 | 13.4 | 19.2 | -25.6 | -33.3 | 129.7 | 23.8 | .7 | 13.5 | 28.0 |
| % Change Cumulative | 5.0 | -9.0 | -21.9 | 43.8 | 1.7 | -11.4 | 7.9 | 29.0 | 30.1 | -5.3 | -14.1 | .4 | 38.7 |

Figures may not add due to rounding. For further details on imports please refer to RMA 500 Report.

## RUBBER MANUFACTURERS ASSOCIATION'S MONTHLY TIRE AND INNER TUBES REPORT

The procedures used by the Management Information Services (MIS) of RMA to compile this data are reviewed at least annually by the RMA Tire Statistical Committee. Committee members represent tire producing companies, both domestic and foreign, which participate in the submission of their monthly tire data to RMA for compilation into an aggregate report. The categories selected for presentation are based upon those developed by the Committee and in many instances upon classifications listed in the Tire and Rim Association's Yearbook.

**Descriptions for the categories used in this report:**

PASSENGER TIRES: all sizes and types of tires designed for standard highway passenger car service. It also includes off-highway passenger service tires such as racing car and dune buggy tires.

TRUCK & BUS TIRES: all sizes and types of tires which are designated as light, medium, dual, heavy, and large off-the-road truck tires.

MOBILE HOME TIRES: all tires designed solely for use in the transportation of permanent or temporary buildings, with wheel attached, from factory to site or site to site.

TRACTOR IMPLEMENT TIRES: steering and drive wheel tires used on tractors in field service or harvesting equipment. This includes combines, cane and rice field tires, log-skidder tires, and those used on farm implement vehicles.

INDUSTRIAL & UTILITY TIRES: all tires used for slow speed industrial vehicles and counterbalanced fork-lift trucks, recreational, boat, baggage, sports and special type trailer tires, as well as tires used on mining cars, lumber yard straddle trucks, wheel barrows, and garden tractors. This category includes swamp buggy, terra, snowmobile, mini-bike, and Go-Kart tires.

INNER TUBES: all inner tubes regardless of the type of tire for which they were manufactured. Only shipments are included in this report.

**Descriptions for the various column headings used in this report:**

Original Equipment: shipments to vehicle manufacturers for their original equipment.

Replacement: shipments destined for the domestic replacement market.

Export: shipments to points outside the United States by the participants, and as such, will differ from the export figures released by the U.S. government.

Production: units produced in domestic factories for the reporting period.

Inventory: stocks as of the last day of the reporting period covered.

**Imports:**

Data for imports are shown separately on this report; however, those of participating companies are reflected in all of the columns with the exception of production. Import data is from the Bureau of Census Report IM-145 derived from data from the Department of Commerce. The import data is listed by the seven digit TSUSA number (Tariff Schedules of the United States) and reflects both government and non-government imports from foreign countries into U.S. Customs territories.

The participants in this report include:

Armstrong Rubber Company
Bridgestone Tire Company of America, Inc.
Bridgestone Tire Manufacturing Inc., (Tennessee)
Carlisle Tire & Rubber Company, Carlisle Corporation
Continental Tire Company
Cooper Tire & Rubber Company
Cupples Company, Manufacturers
Denman Rubber Manufacturing Company
Dunlop Tire & Rubber Company
Firestone Tire & Rubber Company, The
General Tire & Rubber Company, The
BFGoodrich Company, Tire Group, The
Goodyear Tire & Rubber Company, The
Hankook Tire America Corporation
Kelly-Springfield Tire Company
Lee Tire & Rubber Company
McCreary Tire & Rubber Company
Michelin Tire Corporation
Mohawk Rubber Company
Robbins Tire & Rubber Company, Inc.
Sumitomo Tire
Toyo Tire (USA) Corporation
Uniroyal, Inc.
Yokohama Tire Corporation

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A8816-1

RUBBER MANUFACTURERS ASSOCIATION
1400 K STREET, N.W. • WASHINGTON, D.C. 20005 • (202) 682-4800

17 February 1987

TO: RECIPIENTS OF THE MONTHLY TIRE REPORT

FROM: MANAGEMENT INFORMATION SERVICES

Gentlemen:

Please note the following revisions in the Monthly Tire Report for November. In the Passenger category, the YTD OE for 1986 should have been 50,626 and YTD Total Shipments for 1986 should have been 187,689. In the T&B category the following revisions occurred: November Replacement is now 2,823, November Total Shipments is 3,434, and their respective YTD figures are Replacement 29,938 and Total Shipments 37,479.

The correct numbers are reflected in the December Monthly Tire Report. We apologize for any inconvenience this may have caused.

If you have any questions, please call us.

Sincerely,

Joe Kigin

Joe Kigin
Management Information Services

4/4/87 A8810-1

# RMA Industry Report

RUBBER MANUFACTURERS ASSOCIATION • 1400 K STREET, N.W. • WASHINGTON, D.C. 20005 • (202) 682-4860

## MONTHLY TIRE REPORT

### January 1987

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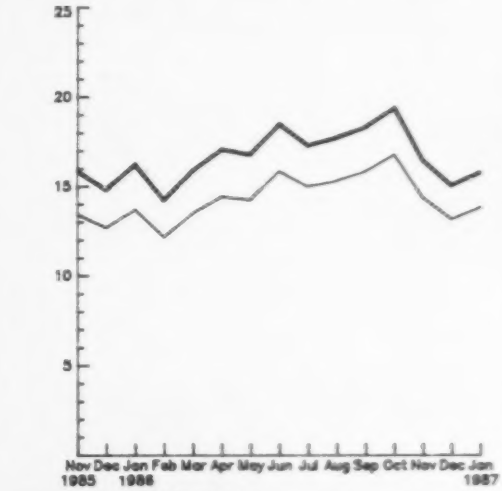
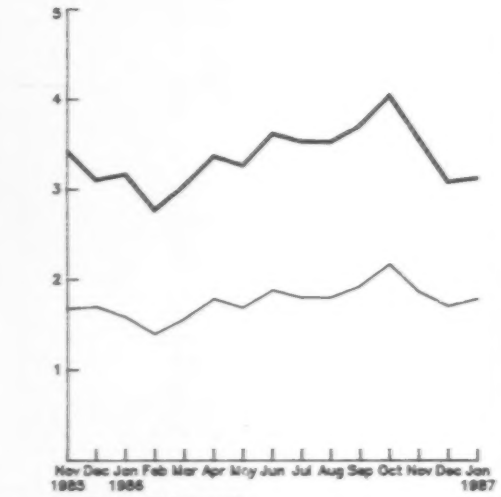


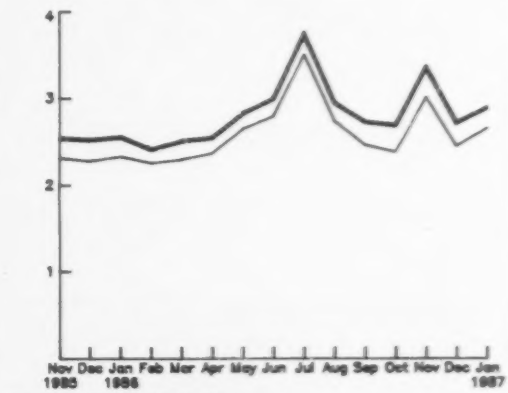

Figures in Millions of Units

### TRUCK & BUS TIRE SHIPMENTS



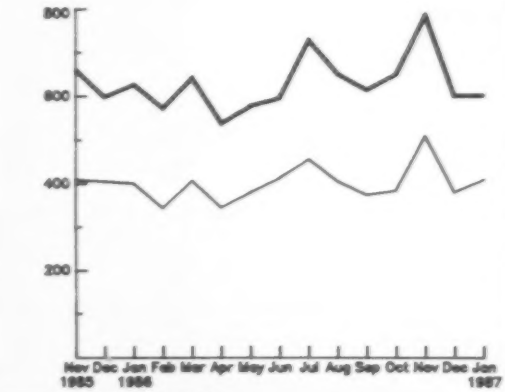

Figures in Millions of Units

### PASSENGER TIRE IMPORTS




Figures in Millions of Units

### TRUCK & BUS TIRE IMPORTS




Figures in Thousands of Units

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The shipment charts show monthly volumes for total shipments and radial shipments for fifteen months running. The vertical distance between the two lines in each graph is the non-radial portion of the total shipments. January 1987 total shipments are down -2.9% from January 1986 for passenger tires, and down -2.5% for truck and bus tires. The import charts show volume of imports of both passenger and truck and bus tires, as well as the portion of imports which are radial tires. From 1982 to 1986, passenger tire imports increased 101.1%, and truck and bus tire imports grew by 104.8%.

# RMA MONTHLY TIRE & TUBE SHIPMENTS & PRODUCTION REPORT
(FIGURES IN THOUSANDS OF UNITS)

ISSUED: March 12, 1987

| PASSENGER TIRES | January 1987 | January 1986 | % CHANGE | YTD 1987 | YTD 1986 | % CHANGE |
|---|---|---|---|---|---|---|
| Shipments | | | | | | |
| Original Equipment | 4,838 | 5,000 | -3.24 | - | - | - |
| Radial | 4,081 | 4,178 | -2.32 | - | - | - |
| Replacement | 10,557 | 10,904 | -3.18 | - | - | - |
| Radial | 9,404 | 9,274 | +1.40 | - | - | - |
| Export | 369 | 341 | +8.21 | - | - | - |
| Radial | 316 | 242 | +30.58 | - | - | - |
| Total | 15,764 | 16,245 | -2.96 | - | - | - |
| Radial | 13,801 | 13,694 | +0.78 | - | - | - |
| Production | 13,940 | 13,422 | +3.86 | - | - | - |
| Radial | 12,074 | 11,324 | +6.62 | - | - | - |
| Ending Inventory | 29,387 | 32,630 | -9.94 | - | - | - |
| Radial | 25,778 | 27,491 | -6.23 | - | - | - |
| **TRUCK & BUS TIRES** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 643 | 603 | +6.63 | - | - | - |
| Radial | 453 | 388 | +16.75 | - | - | - |
| Replacement | 2,360 | 2,504 | -5.75 | - | - | - |
| Radial | 1,247 | 1,134 | +9.96 | - | - | - |
| Export | 121 | 97 | +24.74 | - | - | - |
| Radial | 86 | 57 | +50.88 | - | - | - |
| Total | 3,124 | 3,204 | -2.50 | - | - | - |
| Radial | 1,786 | 1,579 | +13.11 | - | - | - |
| Production | 2,939 | 2,884 | +1.91 | - | - | - |
| Radial | 1,604 | 1,339 | +19.79 | - | - | - |
| Ending Inventory | 6,936 | 8,087 | -14.23 | - | - | - |
| Radial | 3,996 | 4,131 | -3.27 | - | - | - |
| **MOBILE HOME** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 34 | 61 | -44.26 | - | - | - |
| Replacement | 6 | 1 | +500.00 | - | - | - |
| Export | - | - | - | - | - | - |
| Total | 40 | 62 | -35.48 | - | - | - |
| Production | 44 | 71 | -38.03 | - | - | - |
| Ending Inventory | 81 | 162 | -50.00 | - | - | - |
| **TRACTOR IMPLEMENT** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 41 | 50 | -18.00 | - | - | - |
| Replacement | 202 | 229 | -11.79 | - | - | - |
| Export | 18 | 19 | -5.26 | - | - | - |
| Total | 261 | 298 | -12.42 | - | - | - |
| Production | 253 | 305 | -17.05 | - | - | - |
| Ending Inventory | 732 | 804 | -8.96 | - | - | - |
| **INDUSTRIAL & UTILITY** | | | | | | |
| Shipments | | | | | | |
| Original Equipment | 736 | 596 | +23.49 | - | - | - |
| Replacement | 215 | 189 | +13.76 | - | - | - |
| Export | 17 | 21 | -19.05 | - | - | - |
| Total | 968 | 806 | +20.10 | - | - | - |
| Production | 725 | 752 | -3.59 | - | - | - |
| Ending Inventory | 2,079 | 2,012 | +3.33 | - | - | - |
| **INNER TUBES*** | | | | | | |
| Total Shipments | | | | | | |
| Passenger & Motorcycle | 533 | 638 | -16.46 | - | - | - |
| Truck & Bus | 1,208 | 1,245 | -2.97 | - | - | - |
| Tractor-Implement | 174 | 207 | -15.94 | - | - | - |
| Industrial & Utility | 184 | 144 | +27.78 | - | - | - |

* Inner Tube figures are for shipments only, not production.

In order to avoid possible double counting, export figures are as reported to RMA and will vary from data in government reports. This report is available from RMA at a $500.00 subscription rate. Year-end reports are available at $500.00 each. Figures may not add due to rounding. For further detail on tire and tube exports, refer to the RMA 501 report.